

## ABSTRACT:

The invention relates to a ring network being installed as bus network comprising:  $n \geq 4$  nodes 200-1, ... 200-5; and  $n-1$  cable sections 100-1, ... 100-5. Each of said cable sections includes a forward line 105-1 ... 105-4 and a return line 110-1 ... 110-4. The nodes except the first and the last node of said network are referred to as intermediate nodes.

- 5 It is the object of the invention to improve such a network such that its total length is enlarged. This object is solved in the way that the network interfaces in said sequential arranged intermediate nodes 200-2 ... 200-4 are connected alternately between two forward lines 105-1 ... 105-4 or between two return lines 110-1 ... 110-4 of the two cable sections being respectively connected to each of said intermediate nodes.

Fig. 1